

SEQUENCE LISTING

<110> Loma Linda University

<120> IRON-REGULATING PROTEIN-2 (IRP-2) IS  
DIAGNOSTIC FOR NEURODEGENERATIVE DISEASE

<130> LOMAU.140PR

<160> 20

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<211> 189

<212> DNA

<213> Artificial Sequence

<220>

<223> cloning oligonucleotide

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tgtgattctg gagaactagg ccgaaactca ggaacatttt cttcgcagat tgagaataca 180  
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<210> 2

<211> 63

<212> PRT

<213> Artificial Sequence

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<223> peptide for antibody production

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Gly Lys Leu Ser Pro Leu Lys Val Gln Pro Lys Lys Leu Pro Cys Arg  
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Gly Gln Thr Thr Cys Arg Gly Ser Cys Asp Ser Gly Glu Leu Gly Arg  
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu  
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ccacttaaag tgcagcctaa gaagcttccc gccagaggcc agactacctg ccgaggatct 120  
tgtgattctg gagaactagg ccgaaactca ggaacatddd cttcgcagat tgagaataca 180  
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<211> 63

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<223> peptide for antibody production

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Gly	Lys	Leu	Ser	Pro	Leu	Lys	Val	Gln	Pro	Lys	Lys	Leu	Pro	Cys	Arg
			20					25					30		
Gly	Gln	Thr	Thr	Cys	Arg	Gly	Ser	Cys	Asp	Ser	Gly	Glu	Leu	Gly	Arg
		35					40					45			
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<210> 6

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Gly	Lys	Leu	Ser	Pro	Leu	Lys	Val	Gln	Pro	Lys	Lys	Leu	Pro	Cys	Arg
			20					25					30		
Gly	Gln	Thr	Thr	Ala	Arg	Gly	Ser	Cys	Asp	Ser	Gly	Glu	Leu	Gly	Arg
		35					40					45			
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<210> 8  
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu  
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Gly Gln Thr Thr Ala Arg Gly Ser Cys Asp Ser Gly Glu Leu Gly Arg			
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu			
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 cccatcctg 189

<210> 12  
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Gly Lys Leu Ser Pro Leu Lys Val Gln Pro Lys Lys Leu Pro Cys Arg
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu
50 55 60

<210> 13  
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 cccatcctg 189

<210> 14

<211> 63  
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Gly Lys Leu Ser Pro Leu Lys Val Gln Pro Lys Lys Leu Pro Ala Arg  
20 25 30  
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu  
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Gly Gln Thr Thr Ala Arg Gly Ser Ala Asp Ser Gly Glu Leu Gly Arg  
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Asn Ser Gly Thr Phe Ser Ser Gln Ile Glu Asn Thr Pro Ile Leu  
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<212> DNA  
<213> Homo Sapiens

<400> 17

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<210> 18

<211> 952

<212> PRT

<213> Homo Sapiens

<400> 18

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Val	Leu	Leu	Glu	Ala	Ala	Val	Arg	Asn	Cys	Asp	Gly	Phe	Leu	Met	Lys
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Lys	Glu	Asp	Val	Met	Asn	Ile	Leu	Asp	Trp	Lys	Thr	Lys	Gln	Ser	Asn
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Val	Glu	Val	Pro	Phe	Phe	Pro	Ala	Arg	Val	Leu	Leu	Gln	Asp	Phe	Thr
65					70					75					80
Gly	Ile	Pro	Ala	Met	Val	Asp	Phe	Ala	Ala	Met	Arg	Glu	Ala	Val	Lys
				85				90						95	
Thr	Leu	Gly	Gly	Asp	Pro	Glu	Lys	Val	His	Pro	Ala	Cys	Pro	Thr	Asp
		100						105					110		
Leu	Thr	Val	Asp	His	Ser	Leu	Gln	Ile	Asp	Phe	Ser	Lys	Cys	Ala	Ile
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Gln	Asn	Ala	Pro	Asn	Pro	Gly	Gly	Gly	Asp	Leu	Gln	Lys	Ala	Gly	Lys
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Gly	Thr	Phe	Ser	Ser	Gln	Ile	Glu	Asn	Thr	Pro	Ile	Leu	Cys	Pro	Phe
			180					185					190		
His	Leu	Gln	Pro	Val	Pro	Glu	Pro	Glu	Thr	Val	Leu	Lys	Asn	Gln	Glu
		195					200					205			
Val	Glu	Phe	Gly	Arg	Asn	Arg	Glu	Arg	Leu	Gln	Phe	Phe	Lys	Trp	Ser
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Ser	Arg	Val	Leu	Lys	Asn	Val	Ala	Val	Ile	Pro	Pro	Gly	Thr	Gly	Met
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Ala	His	Gln	Ile	Asn	Leu	Glu	Tyr	Leu	Ser	Arg	Val	Val	Phe	Glu	Glu
				245					250					255	
Lys	Asp	Leu	Leu	Phe	Pro	Asp	Ser	Val	Val	Gly	Thr	Asp	Ser	His	Ile
		260						265					270		
Thr	Met	Val	Asn	Gly	Leu	Gly	Ile	Leu	Gly	Trp	Gly	Val	Gly	Gly	Ile
	275						280					285			
Glu	Thr	Glu	Ala	Val	Met	Leu	Gly	Leu	Pro	Val	Ser	Leu	Thr	Leu	Pro
	290					295					300				
Glu	Val	Val	Gly	Cys	Glu	Leu	Thr	Gly	Ser	Ser	Asn	Pro	Phe	Val	Thr
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Ser	Ile	Asp	Val	Val	Leu	Gly	Ile	Thr	Lys	His	Leu	Arg	Gln	Val	Gly
				325					330				335		
Val	Ala	Gly	Lys	Phe	Val	Glu	Phe	Phe	Gly	Ser	Gly	Val	Ser	Gln	Leu
			340					345					350		
Ser	Ile	Val	Asp	Arg	Thr	Thr	Ile	Ala	Asn	Met	Cys	Pro	Glu	Tyr	Gly
		355					360					365			
Ala	Ile	Leu	Ser	Phe	Phe	Pro	Val	Asp	Asn	Val	Thr	Leu	Lys	His	Leu
	370					375					380				
Glu	His	Thr	Gly	Phe	Ser	Lys	Ala	Lys	Leu	Glu	Ser	Met	Glu	Thr	Tyr
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Leu	Lys	Ala	Val	Lys	Leu	Phe	Arg	Asn	Asp	Gln	Asn	Ser	Ser	Gly	Glu
				405					410					415	
Pro	Glu	Tyr	Ser	Gln	Val	Ile	Gln	Ile	Asn	Leu	Asn	Ser	Ile	Val	Pro
		420						425					430		
Ser	Val	Ser	Gly	Pro	Lys	Arg	Pro	Arg	Asp	Arg	Val	Ala	Val	Thr	Asp
		435					440					445			
Met	Lys	Ser	Asp	Phe	Gln	Ala	Cys	Leu	Asn	Glu	Lys	Val	Gly	Phe	Lys
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